

**ABSTRACT**

A PRV-IWF 109 includes an FIN+ACK-DET circuit 205 for discriminating a message in a TCP/IP packet sent from an AS 110, and detecting an end of a data transfer, an ACK-DET circuit 206 for discriminating a message in a TCP/IP packet sent from a DTE 101, and detecting that the DTE 101 has recognized an end of a data transfer, and a line signal transmitting and receiving circuit 207 for providing an indication to an MSC 106 via a signal repeating device to release talking channels for TCP/IP data communication within a mobile communication network in case that a value of a logical product of the detection results of both circuits 205 and 206 is true.

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